FINAL
NAVAL STATION TREASURE ISLAND
REMEDIAL PROJECT MANAGERS AND
BASE REALIGNMENT AND CLOSURE CLEANUP TEAM
MEETING MINUTES
MARCH 3, 2010

These minutes summarize discussions with the remedial project managers (RPM) and the Base Realignment and Closure (BRAC) Cleanup Team (BCT) for the former Naval Station Treasure Island (NAVSTA TI). The meeting was held at 10:00 a.m. on March 3, 2010, in the office of Tetra Tech EM Inc. (Tetra Tech) in Oakland, California. The agenda and sign-in sheet are included as Attachment 1.

The following participants attended the meeting:

Scott Anderson, Navy

Pete Bourgeois, Shaw Environmental Inc. (Shaw)

Bill Carson, ARCADIS (consultant to Lennar)

David Clark, Navy

Gary Foote, AMEC Geomatrix (consultant to the Treasure Island Development Authority [TIDA])

Kevin Hoch, Tetra Tech

Tracy Jue, California Department of Public Health (CDPH), via telephone

Christine Katin, U.S. Environmental Protection Agency (EPA)

Campbell Merrifield, Tetra Tech

Pat Owens, Navy Radiological Affairs Support Office (RASO), via telephone

Marcie Rash, Tetra Tech

Ross Steenson, San Francisco Bay Regional Water Quality Control Board (Regional Water Board)

James Sullivan, Navy

Medi Sunga, California Department of Toxic Substances Control (DTSC)

Michael Tymoff, TIDA, via telephone

Robert Wilson, CDPH, via telephone

I. Introductions, Meeting Guidelines, and Agenda Review

Marcie Rash (Tetra Tech) began the meeting with introductions and a review of the agenda. She asked if there were additional items to add to the agenda (see Attachment 1). There were no additional items to be added.

II. Approval of BCT Meeting Minutes

James Sullivan (Navy) provided a status update of the BCT draft meeting minutes. Comments on all the draft minutes from 2009 and January 2010 have been received from all BCT members. He said the February meeting minutes would be provided shortly.

Decisions: None.

Action Items: Provide Draft February BCT Meeting Minutes to the BCT.

III. Navy and Organizational Updates

Navy Funding
David Clark (Navy) reviewed the Navy's funding and project priorities (see Attachment 2), and noted there had been some minor adjustments based on requirements for transfer. Gary Foote (AMEC Geomatrix) asked if the shift of the Site 27 remedial design contracting meant that no work will be done at the site prior to September 2010. Mr. Clark said since the proposed plan and record of decision (ROD) had not yet been written, it was likely no work would be done at the site prior to September 2010, and the [Remedial Design/Remedial Action] contracting item would likely be moved to fiscal year 2011. Medi Sunga (DTSC) said the Navy will prepare a Proposed Plan and ROD in 2010. Bill Carson (ARCADIS) asked if the shifting indicated a change in priorities. Mr. Clark said no; it was merely a reshuffle of the same six contracting items already on the list. Christine Katin (EPA) asked for clarification of the property transfer process and the Finding of Suitability to Transfer (FOST). Mr. Sullivan said two FOSTs, for Treasure Island and Yerba Buena Island, had already been prepared in 2006, and a new FOST would be prepared in 2010 for the portions of property that had become eligible for transfer [FOST-able]. He added that the 2006 FOSTs had been reviewed and commented on by the BCT, and signed by the Navy, so only the new 2010 FOST would be a review and comment task for the BCT.

Navy Organizational Update
Mr. Sullivan said there were no personnel updates for the Navy. There were no updates from the other agencies.

Decisions: None.

Action Items: None.

IV. Site 12 Update

Pete Bourgeois (Shaw) provided an update on the non-time-critical removal action (NTCRA) in the Site 12 solid waste disposal areas (SWDA) (see Attachment 3). Mr. Bourgeois said excavation progress along the roadway towards the four foot depth mark is ongoing but has been slowed by weather. He said removal of bins containing low level radiological waste had also been delayed due to weather. He said the groundwater levels have risen due to the rain, making excavating difficult. He said the portion of water line that was removed had been scanned for any elevated radiological readings, and given that there were no detections, all the piping had been discarded as construction debris. Mr. Bourgeois said additional scanning and surveying was ongoing in the vicinity of Buildings 1121 and 1123. He added that floor and sidewall samples would be collected later, including split samples for CDPH. Mr. Carson asked if the sidewalls of the excavations were being scanned for radiological items, and if the team was testing for

any other contaminants of concern. Mr. Bourgeois said yes, and that the radiological scans were completed prior to any chemical sampling.

Tracy Jue (CDPH) requested a copy of the approved work plan for the SWDA NTCRA, and a list of what low level radiological materials had been removed to date. Pat Owens (RASO) said he was reviewing the report of the first shipment and would forward that shortly, and agreed to check into sending a copy of the work plan. Mr. Bourgeois said the list [precursor to the report] of all items in the previous two shipments of radiological items had been provided to the BCT already. Mr. Owens said a third shipment is planned, but the inventory list of radiological items with identification will not be prepared until they are actually shipped.

Ms. Jue asked about the potential for radiological nuclides to migrate through water, based on the presentation photos showing a roped-off area with radiation warning signs in water-filled excavation areas, and asked about the levels encountered beneath the trench plate. Mr. Owens explained that an anomaly with readings as high as 20,000 microrems had been discovered and covered beneath the trench plate. He said a work instruction for the removal of the hotspot area is being prepared. Mr. Owens said eight soil samples had been collected around the perimeter to determine if any of the radiation was migrating from the area, and that migration was confirmed, but it was not as significant as potentially thought. He added that any migration would be further quantified during the hotspot excavation. Mr. Sullivan noted that the excavation water does not drain off the project site, is contained, and just percolates downward. Mr. Foote asked Mr. Owens to explain the timing of the collection of soil samples to clarify how he concluded that migration was occurring outside of the trench plate. Ms. Rash suggested an action item to present a clarification of the potential migration of radiological contamination in the hotspot area.

Mr. Foote asked to follow-up on a few questions from past meetings. He said that, as he had stated at several meetings, the City would like to see complete removal of any radiological contamination, and that the Navy get free release of the Solid Waste Disposal Areas. He noted that part of the concern of the City is over potential radiological contamination beneath buildings. He asked for any updates from the Navy's internal discussions on this subject. Mr. Sullivan said the Navy has not made any decisions at this time and has not taken any options off the table. He said that the Navy is more focused right now on the removal of the hotspot [beneath the trench plate] and the completion of the excavation outside of the building footprints. But he added that now that Navy and City management are in property transfer discussions, there is a parallel discussion on condition of property as part of their agenda as well, in addition to the BCT meetings.

In another follow-up, Mr. Foote said that in the November 2009 BCT meeting, Ryan Miya of DTSC had encouraged the Navy to initiate dialogue with CDPH on what would be necessary for CDPH to provide free release, based on experiences at Hunters Point Shipyard (HPS). He asked if there had been any dialogue between the Navy and CDPH regarding free release. Ms. Jue asked for clarification on whether or not Treasure Island was an NPL site, and Mr. Sullivan replied that it was not. Ms. Jue said that last week, the

Navy HPS team (BRAC and RASO), had been in discussions with CDPH, but HPS is an NPL site and EPA is the lead agency approving dose modeling. At Treasure Island, since it is not an NPL site, CDPH would be the lead agency. Ms. Jue said if there is no remediation under the housing buildings, CDPH may be require a license if the property is being transferred.

Ms. Jue said free release will depend on the final status survey and how well the site is characterized. She said she is aware that in the past some buildings at Treasure Island have been granted free release based on a submitted final status survey, and that CDPH had conducted a confirmation survey. She added that the RHB (Radiologic Health Branch) of CDPH would also be involved for licensing. [Ms. Jue and Mr. Wilson are in the Environmental Management Branch (EMB) of CDPH.] Mr. Owens said the criteria [for release] are still being worked out, and the final status surveys still have to be planned to demonstrate whether there is or is not radiological impacted material present. Mr. Foote said the City is concerned a license would be required for any radiological impacted material beneath buildings which would constitute a restriction on the building pads. Ms. Jue agreed with Mr. Foote's statement. Robert Wilson (CDPH) said the final status survey as per the Multi-Agency Radiation Survey and Site Investigation Manual (MARSSIM) addressed only surface soils and not subsurface soils. He said excavations that have been backfilled without doing a final status survey present a problem. Mr. Sullivan said sidewall and bottom samples were collected for the final status survey prior to backfilling.

Mr. Wilson stated that since Treasure Island is a non-NPL site, that CDPH would be the lead regulatory agency for radiological issues, and he said that the CDPH Environmental Management Branch stresses unrestricted release of the property, which appears to be the City of San Francisco's goal. Mr. Foote agreed. Mr. Wilson added that if any structures are involved, that the structures would have to meet unrestricted release also. He said that CDPH would like to see the structures surveyed if they had not been surveyed. Mr. Foote said that in this case, he did not think there was concern that the structures were contaminated, but rather that there may be radiological contamination beneath the structures. Ms. Jue agreed. Mr. Wilson asked if the SWDA area was developed as housing after use as a disposal area. Mr. Sullivan said yes, the SWDA area was a disposal area until the 1950's and converted to housing beginning in the late 1960s. Mr. Wilson asked if soil had been disturbed during housing construction and whether it was possible that the buildings had become contaminated. Mr. Sullivan said that was unknown, but that the buildings would be evaluated as part of the final status survey. He added that some monitoring for radon inside housing units had already been conducted. Mr. Wilson asked if radium had been looked for. Mr. Bourgeois said only in the exterior carports. Mr. Foote said this type of dialogue was important in the process. Mr. Sullivan noted that at this time, the Navy is conducting a NTCRA, and the original purpose of the NTCRA was to address the soil in the unpaved areas. He said the Navy understands that as a follow-up to the NTCRA the site needs to be closed out, and a final status survey work plan would be prepared to collect any additional information required for the final status survey. Mr. Foote made the point that the original scope of work for the NTCRA

was developed before the radiological contamination was identified, and that the discovery changes the thinking about the site.

Mr. Wilson said the final status survey is based on the historical site assessment, and asked if the site assessment identified any issues with radiological concerns in the SWDAs. Mr. Sullivan said a historical radiological assessment (HRA) was prepared in 2005 identified the SWDAs as a potential concern, but there was no confirmed historical evidence that radiological material had been disposed of in the SWDAs. It was not until the excavation began for the NTCRA for chemicals of concern that radiological material was encountered as a result of the radiological screening of soil that was part of the workplan. Mr. Owens said the SWDAs were identified in the HRA based on the general Navy use of radium, and the existence of the incineration and disposal areas in the SWDAs, and not actual evidence. Mr. Wilson asked if the HRA listed the SWDAs as impacted areas. Mr. Sullivan said according to the strict definition the SWDAs were listed as impacted, but it was a potential impact only. Mr. Wilson said the samples and surveys had confirmed the areas were impacted and questioned whether the HRA should be amended. Mr. Owens said that the Navy has thought about an HRA amendment, but were focused right now on the NTCRA. Mr. Wilson added it would be important as the final status surveys would be based on the HRA.

Ms. Rash suggested the Navy and CDPH continue this discussion as part of an action item.

Decisions: None.

Action Items:

- Navy and CDPH to continue discussions regarding path forward for radiological closeout for the SWDAs.

Navy to forward list of previously located radiological items to Tracy Jue at CDPH.

V. Field Activities Update

Scott Anderson (Navy) reviewed the data from the four quarters of sampling at Site 21 after the injection (Attachment 4). Mr. Anderson said the sample results look good, however, he said there is evidence in one well in particular (21-MW09A) that breakdown and biodegradation of contamination is still ongoing. Mr. Foote asked what the problem was with 21-MW09A. Mr. Anderson said it is likely the well did not receive a good distribution during the first injection rounds, and they are still evaluating the need to do more. Mr. Foote asked if the well was located near an injection point. Mr. Anderson said there were slight differences between the original plan and the actual injection locations, and the location is more in the central area of the site. Ross Steenson (Regional Water Board) requested an updated figure with actual injection locations and wells depicted. Mr. Carson asked about the future plans for the site. Mr. Anderson said one more quarter of groundwater monitoring is planned, and possibly more sampling

after that, and added that a treatability study report and the CERCLA proposed plan are being prepared.

At Site 24, Mr. Anderson said groundwater samples had been collected in both the source area and downgradient plume area. He said there would be two more quarters of sampling in the source area and three more quarters in the downgradient plume area. He said once the data is ready for review, the Navy will email it to the BCT.

At Site 31, Mr. Anderson said excavation work had begun and confirmation samples had already been collected. He said the excavations are filled with a lot of water from the rains and the sidewalls are giving way, so if the BCT agrees, the Navy would like to backfill the excavations. Mr. Anderson asked Mr. Bourgeois to discuss the ongoing activities. Mr. Bourgeois said the pictures of the excavations (see Attachment 5) show the excavation is filled with water, and also shows the utility lines that have been encountered during the excavation. He said only one confirmation sample exceeded the screening criteria for lead, all the others were below criteria. Ms. Sunga asked if there was any over-excavation. Mr. Bourgeois said over-excavation was used only when debris was visually observed. Ms. Sunga asked if the debris was removed before a sample was collected. Mr. Anderson said that they had removed debris before collecting samples. Mr. Bourgeois added that it was the same process that had been used at Site 32. Mr. Steenson asked why an area would be over-excavated. Mr. Bourgeois said if anything was observed on sidewalls, the excavating continued. Mr. Steenson asked if a figure could be prepared, at the end of the fieldwork, showing the area of planned excavation, and the area actually excavated.

Mr. Foote asked if screening for radiological items had been conducted. Mr. Bourgeois said screening had been done [similar to Site 32], and nothing has been detected.

Mr. Anderson said the excavation is ongoing on 11th Street, and they have not begun backfilling. Ms. Sunga asked how deep the excavation was, and Mr. Anderson said it was approximately 6 feet deep. Ms. Sunga asked if they had encountered groundwater. Mr. Bourgeois said yes, groundwater had been encountered at a depth of 3.5 feet. Mr. Foote asked if bottom samples had been collected in the areas excavated to 6 feet. Mr. Bourgeois said yes, bottom samples had been collected. Mr. Carson asked if they were dewatering the excavation. Mr. Bourgeois said it was not possible to dewater the excavation. Mr. Sullivan added that the soil was too permeable for dewatering.

Mr. Foote said the results of the samples collected look good, and asked if sidewall confirmation samples were collected at the same depth as the original samples. Mr. Bourgeois said samples were collected as described in the work plan, at the same level, unless staining was observed. He said most soil excavated has been sent to a Class I landfill because of elevated concentrations of lead in the soil. Mr. Carson asked how backfilling would occur. Mr. Bourgeois said rock would be laid down at the bottom of the excavation because of the water, and he said the soil used for backfilling would comply with the DTSC requirements for clean fill. Ms. Sunga and Mr. Steenson agreed that backfilling could proceed based on confirmation sample results presented.

Mr. Anderson said that samples had been collected from the two groundwater monitoring wells installed at Site 32. He said the data is being processed and will be forwarded soon. Mr. Anderson said the Navy was waiting for groundwater levels to drop before sampling the newly installed wells in the Site 12 arsenic treatability study area.

Decisions: DTSC and Water Board agreed backfilling of the Site 31 excavation area could begin.

Action Items:

- Navy to provide a figure of the "Round Two" direct injection points at Site 21.
- Navy to provide the Site 24 groundwater data from most recent sampling.
- Navy to provide a figure of the Site 31 planned versus actual excavation areas after the fieldwork is complete.

VI. Site 33 Path Forward

Mr. Anderson said in recent discussions regarding transfer, Site 33 had been identified as an important area for the development of a new utility corridor. The Navy has considered ways to speed up the closure process of Site 33 to allow for transfer. Mr. Anderson proposed a possible plan to include Site 33 in the Site 31 ROD using an explanation of significant difference (ESD). He said this could be justified because the sites were both part of the same initial investigation and had the same contaminants of concern, lead and polycyclic aromatic hydrocarbons (PAH). He said the ESD would be presented to the BCT for approval and would be presented to the public for review. He said the remedial work plan for Site 33 could be prepared while the ESD was ongoing to save time in the process. He said there is funding in the 2010 budget for an action. He said the only delay would be in the Site 31 remedial action reporting while Site 33 fieldwork was being completed so that both areas would be combined on one report.

Mr. Foote said he appreciated the Navy's attention to the City's development schedule. He was unclear how the ESD fits into the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) process, since the final remedial investigation (RI) report is just being finalized for Site 33. Mr. Clark said to use the remedy selected in the Site 31 ROD, Site 33 would also rely on the Site 31 feasibility study (FS) report, and that the change would be considered an expansion of the excavation. Mr. Foote asked if the Site 31 FS and ROD have the same conclusions that would be reached at Site 33. Ms. Sunga asked if Navy legal had been consulted. Mr. Anderson said yes, Navy legal counsel had agreed with the proposal. Mr. Clark said that since the RI report had not been finalized, there was a question regarding whether the site had really entered into the CERCLA process at all. Ms. Sunga asked if the areas of excavation had been defined in Site 33. Mr. Anderson said areas for excavation would be included in the work plan based on initial investigations. Mr. Foote asked if the goal for Site 33 was to excavate the areas so no restrictions would be required at transfer. Mr. Anderson said that was correct, and Mr. Bourgeois said the same aggressive [remedial]

approaches that have been used at Sites 32 and 31 would be followed, and that should not result in any restrictions. Ms. Sunga asked if the waterline connects Sites 31 and 33. Mr. Anderson said yes, and added that during a search of historical drawings, the waterline replacement drawings were found with notes from Navy Public Works noting where debris had been encountered. The areas were then investigated as part of a data gaps investigation. Mr. Bourgeois added that the waterlines on the island are one large loop. Ms. Sunga asked if the entire waterline was looked at or only the areas with debris. Mr. Sullivan said the waterline was replaced in 1988 and the notes on the drawings identifying the debris areas were used to conduct a data gaps investigation, so only the areas where debris was noted were investigated. Mr. Bourgeois said the debris noted in the drawings corresponded to the locations where debris was found in the investigation trenches. Ms. Sunga said she would talk to DTSC's legal department regarding the use of the ESD. Mr. Anderson said the Navy would meet with DTSC if necessary to further discuss the matter. Ms. Sunga said she would let him know by March 17, 2010.

Mr. Carson asked how the change impacts the schedule. Mr. Clark said the change saves time contractually. Mr. Anderson said using a rough schedule estimate, Site 33 could be completed by July or August 2011.

Mr. Carson asked about the schedule for completion at Site 21. Mr. Sullivan said that would be later than July 2011. Mr. Anderson said the proposed plan and ROD are being prepared for Site 21 at this time. Mr. Carson said the developers have expressed an interest in transferring Site 21 quickly. Mr. Sullivan said he was aware of their desire to expedite Site 21, and said a table with conveyance dates is being circulated between the Navy and the City.

Ms. Katin said the current completion schedule for Site 33, including an FS report, proposed plan, and ROD, is more than 1 year, and noted that a ROD amendment would also require a FS report. Mr. Anderson agreed with the schedule, and stated that the proposed ESD was not a ROD amendment, and reiterated that the Navy was proposing an ESD that would rely on the Site 31 ROD. Mr. Anderson said the path proposed would accomplish the most results in the least amount of time.

Decisions: None.

Action Items:

DTSC to respond to proposed Site 33 path forward by March 17, 2010.

Navy will provide a proposed schedule for the Site 33 ESD.

VII. Site 28 West Side On/Off Ramp

In response to DTSC's and the AMEC Geomatrix's requests, Mr. Clark provided a summary of the efforts to locate the 1992 Blaine report and what had been learned during the search for the report. He said the Navy has not been able to locate the report. He said the project which had subsequently involved the Blaine sampling had been to perform a

structural evaluation of the elevated portions of the bridge ramps. He said there were five separate structures and the middle sections, numbers 2 and 3, were in the worst condition. (Map Provided) He said since the work focused on structures 2 and 3, which helped define the area where the work was occurring [which the Blaine sampling was supporting]. Structures 2 and 3 were the largest structures in need of most repair.

Mr. Clark said there was also documentation relating to the types of paint used on the structures that indicated it contained lead and zinc. During project planning, which spanned several years, there was a record of discussions with the Air Quality Management District regarding shrouding of areas where sand blasting was occurring, and requesting the Navy obtain a permit for the work. He said there was a general overall concern for workers' safety, which ultimately lead to the 1992 samples collected by Blaine. He said it was noted in subsequent reports that soil samples were collected near the structures with peeling paint.

Mr. Clark then showed a separate report that had pictures of the steep slope of the hillside in the area. He said the environmental baseline survey reported that because of the steepness of the slope, [future] building in the area was unlikely. He said when he visited the site last week the entire area underneath the subject structures had been covered with shotcrete and the soils were not visible. He added that the area was very difficult to access, and any flat areas in the site are immediately adjacent to the Bay Bridge off ramp. Recreational use was clearly not an option.

Mr. Clark said use of the old 1992 data in the Site 28 risk assessment had been previously discussed, but because so little is known about the data—such as why samples were collected, whether they were biased towards paint chips in the soils, and whether the data had been validated—the BCT determined previously to not include the data in the human health risk assessment. Mr. Clark said the Navy would prepare a short write-up of what they had found, with supporting attachments.

Mr. Carson asked about the condition of the shotcrete. Mr. Clark said the shotcrete was in good condition, but the steel supports of the bridge need painting. Mr. Sullivan said the ramps will be transferred to the City, which is trying to align funding for replacement of the ramps. Mr. Carson asked if the Site 28 proposed plan will address the construction worker. Mr. Sullivan said the proposed plan does not address the construction worker, and noted timing of the transfer is important. Michael Tymoff (City of San Francisco) said yes, the transfer must occur before the disbursement of funds in December. Mr. Foote thanked the Navy for their effort to research the Blaine report, and thanked the BCT for their continued consideration.

Decisions: It was decided that the use of the Blaine data would not be pursued further.

Action Items: Navy will prepare a short write-up of its findings for Site 28 and the Blaine report, with supporting attachments.

VIII. Site 27 Feasibility Study

Mr. Sullivan said the Navy is going to finalize the Site 27 FS report. He said there has been a long history for this document, including a revision to incorporate results of additional samples collected. He said this is the first time the Treasure Island BCT has been unable to reach consensus on a document, but he feels it is time to go ahead and finalize the document. He said there will be additional time for comment in the CERCLA process with the proposed plan and ROD.

Mr. Foote said he thinks going forward it would be important for the Navy to work closely with the team developing the marina during the remedial design phase. Mr. Tymoff agreed; the City would like input on the design of the Navy's proposed remedy.

Ms. Sunga said she would like to continue the dialogue and recommended a meeting with the agencies, including the Bay Conservation and Development Commission (BCDC) and the developer, to discuss the FS report and possibilities for any amendments or how to move forward. Mr. Sullivan asked to clarify under what phase of the CERCLA process such a meeting would occur. Ms. Sunga said it would begin now and focus on any remedial design elements, and how that might impact the proposed plan. Mr. Carson noted there is a plan to change the boundary and remove the "upland" portion from Site 27. Mr. Sullivan said that was true, and the Navy is preparing a point paper to address the boundary change. Mr. Clark said the final FS report would support the boundary change. Mr. Anderson noted there is a portion of Petroleum Site 25 that overlies the upland portion of Site 27, and a no further action concurrence letter is due shortly from the Water Board. Mr. Steenson agreed that the letter, with restrictions, would be coming shortly. Mr. Sullivan said the Navy had discussed Site 27 with the BCDC, and determined that as a federal agency the Navy would not be required to obtain a permit for the remedial activities. He added that the final Site 27 FS is due May 20, 2010.

Decisions: None.

Action Items: None.

IX. Upcoming Documents and Field Activities

Upcoming Documents

Kevin Hoch (Tetra Tech) reviewed the document tracking sheet (DTS) (Attachment 6). Mr. Steenson asked if the responses to comments on the Site 28 proposed plan would be submitted March 4, 2010. Mr. Clark said the responses would likely be delayed 1 week. Ms. Sunga asked if there were any dates for the Site 32 post-construction summary report. Mr. Anderson said no dates had been provided as the recent groundwater data was needed, and a revised human health risk assessment is planned.

Field Schedule

Mr. Hoch reviewed the field activities scheduled to begin within the next 30 days (Attachment 7). Mr. Foote asked if there had been any resolution on how the surface of Site 31 excavations would be restored. Mr. Sullivan said he had been in contact with TIDA and informed them that the area would not be restored, and would be left as unpaved soil. He said the street is not a part of the future development plan, the school nearby is closed, and the street has only low levels of traffic. Mr. Sullivan said that he wasn't suggesting that TIDA necessarily agreed with the restoration plans. Mr. Anderson said he had been in contact with the [San Francisco] Fire Department as well, and they did not express any concerns with leaving the street unpaved. Mr. Carson asked if the area would be properly graded for drainage. Mr. Sullivan said yes; the site would be graded for drainage, but the site restoration plan had not been finalized.

Decisions: None.

Action Items: None.

X. RAB Meeting Agenda/Community Relations Update

Mr. Sullivan reviewed the items on the community relations activities update (see Attachment 8).

Mr. Sullivan said RAB attendance continues to be lower despite all the attempts to reach out and encourage participation. He said the City's community meetings on the island, which are also bimonthly, have had low attendance numbers lately as well. He said on the RAB conference call at the end of the month, there had been discussion of changing the meetings from bimonthly to quarterly. He said a list of scheduled documents had been compiled for quarterly RAB meetings, which is included in Attachment 8, and it was determined by the Navy that there would be too much material based on site activities and status of the property transfer process to present for the four meetings proposed. The Navy believes it would be best to continue the meetings on a bimonthly basis for 2010. Ms. Katin asked if the decision would be revisited in 2011. Mr. Sullivan said yes.

Mr. Sullivan said he had not received any new inquiries from the public in the last month.

Decisions: None.

Action Items: None.

XI. Discuss Other Items/Review Action Items

Action Items:

Ms. Rash said the only outstanding action item, the creation of a poster using the aerial photograph from 2009 and the revised Site 11 boundaries is finally complete. Ms. Rash reviewed the new action items:

- Provide Draft February BCT Meeting Minutes to the BCT.
- Navy and CDPH to continue discussions regarding path forward for radiological closeout for the SWDAs.
- Navy to forward list of previously located radiological items to Tracy Jue at CDPH.
- Navy to provide a figure of the "Round Two" direct injection points at Site 21.
- Navy to provide the Site 24 groundwater sampling data from most recent sampling.
- Navy to provide a figure of the Site 31 planned versus actual excavation areas.
- DTSC to respond to proposed Site 33 path forward by March 17, 2010.
- Navy will provide a proposed schedule for the Site 33 ESD.
- Navy will prepare a short write-up of its findings for Site 28 and the Blaine report, with supporting attachments.

XII. Future BCT Agenda Items/Other Meetings

Ms. Rash said the next BCT meeting would be in April and asked the team for agenda items. She suggested follow-on topics from this meeting's discussion might include the "migration" of radiological contamination from Buildings 1121/1123 area, and the path to free release at Site 12. She said a draft agenda with the standard items will be sent for review 1 week before the next meeting.

Ms. Rash said the 2-day meeting in May will be May 4 and 5, to discuss the Site Management Plan (SMP) for 2010 along with other documents. Mr. Steenson said he was available to travel to San Diego for the meeting. Ms. Sunga said she is completing the paperwork.

Future BCT Meetings

- April 7, 2010, Tetra Tech, Oakland, California
- May 4–5, 2010, Tetra Tech, San Diego, California
- June 2, 2010, Tetra Tech, Oakland, California

ATTACHMENT 1

AGENDA AND SIGN-IN SHEET

(5 Pages)

AGENDA
NAVAL STATION TREASURE ISLAND
BRAC CLEANUP TEAM / REMEDIAL PROJECT MANAGERS MEETING

Date: **Wednesday March 3, 2010**
Time: 10:00 a.m. to 12:00 a.m.
Place: Tetra Tech EMI, 1999 Harrison Street, 5th Floor, Oakland, CA
Dial In: [redacted]
Meeting ID#: [redacted]

10:00 – 10:05 Item: **I.** **Introductions, Meeting Guidelines, Agenda Review**
Opening: Facilitator
Goal: Introduce all attendees, discuss changes to agenda or add 'Other Items'

10:05 – 10:10 Item: **II.** **Approval of BCT Meeting Minutes**
Opening: James Sullivan
Goal: Address BCT review comments on previous meeting minutes and approve
Process:
- BCT Discussion/question and answer
- LRA Check-in/question and answer
- Update and identify action items

10:10 – 10:15 Item: **III.** **Navy and Organizational Updates**
Opening: Dave Clark/ James Sullivan
Goal: Provide updates on Navy budget, changes within the Navy organization, and other BCT organizational updates
Process:
- BCT Discussion/question and answer
- LRA Check-in/question and answer
- Update and identify action items

10:15 – 10:30 Item: **IV.** **Site 12 Update**
Opening: Tony Konzen
Goal: Provide update on Site 12 SWDA removal action activities
Process:
- BCT Discussion/question and answer
- LRA Check-in/question and answer
- Update and identify action items

AGENDA
NAVAL STATION TREASURE ISLAND
BRAC CLEANUP TEAM / REMEDIAL PROJECT MANAGERS MEETING

10:30 – 11:00 Item: **V.** **Field Activities Update**
Opening: Scott Anderson
Goal: Provide an update on field activities at Sites 21, 24, 31 and 32 and the Site 12 arsenic treatability study trenching activities. Present results of sampling at Sites 21 and 24.
Process:

- BCT Discussion/question and answer
- LRA Check-in/question and answer
- Update and identify action items

11:00 – 11:10 Item: **VI.** **Site 33 Path Forward**
Opening: Dave Clark/Scott Anderson
Goal: Identify potential paths for Site 33
Process: Discuss possibilities

- BCT Discussion/question and answer
- LRA Check-in/question and answer
- Update and identify action items

11:10 – 11:20 Item: **VII.** **Site 28 West Side On/Off Ramp**
Opening: Tony Konzen
Goal: Present paper regarding efforts to locate data.
Process: Discuss efforts to resolve issue of lost data

- BCT Discussion/question and answer
- LRA Check-in/question and answer
- Update and identify action items

11:30 – 11:40 Item: **VIII.** **Site 27 Clipper Cove Skeet Range**
Opening: Dave Clark/James Sullivan
Goal: Proposed finalization of the Second Revised Feasibility Study
Process:

- BCT Discussion/question and answer
- LRA Check-in/question and answer
- Update and identify action items

AGENDA
NAVAL STATION TREASURE ISLAND
BRAC CLEANUP TEAM / REMEDIAL PROJECT MANAGERS MEETING

11:40 – 11:45	Item: **IX.**	**Upcoming Documents and Field Activities**
	Opening:	Kevin Hoch
	Goal:	Identify upcoming documents and field activities
	Process:	Distribute document tracking sheet and field schedule and discuss items upcoming in the next month ▪ BCT Discussion/question and answer ▪ LRA Check-in/question and answer ▪ Update and identify action items
11:40 – 11:50	Item: **X.**	**RAB Meeting Agenda/Community Relations Update**
	Opening:	James Sullivan
	Goal:	Discuss the draft agenda for April 20, 2010 RAB meeting; and provide comrel updates ✓ Discuss any inquiries received from community members.
	Process:	▪ BCT Discussion/question and answer ▪ LRA Check-in/question and answer ▪ Update and identify action items
11:50 – 11:55	Item: **XI.**	**Future BCT Agenda Items/Other Meetings**
	Opening:	James Sullivan
	Goal:	Agree on agenda items for the next RPM/BCT meetings and review scheduled upcoming meetings
	Process:	✓ Review scheduled upcoming meetings ✓ BCT to identify future agenda items ▪ BCT to identify other items for discussion ▪ BCT Discussion/question and answer ▪ LRA Check-in/question and answer ▪ Update and identify action items

AGENDA
NAVAL STATION TREASURE ISLAND
BRAC CLEANUP TEAM / REMEDIAL PROJECT MANAGERS MEETING

11:55 – 12:00 Item: **XII. Discuss Other Items/Review Action Items**

Opening: BCT Members

Goal: Discuss other items and review action items;

Process:

- ✓ Identify other items
- ✓ Review Action Items
- ✓ Annual San Diego Extended Meeting

- BCT to identify other items for discussion
- BCT Discussion/question and answer
- LRA Check-in/question and answer
- Update and identify action items

Future RPM/BCT Meetings:
(A year at a glance)

April 7, 2010, Tetra Tech EM Inc., Oakland, California
May 5, 2010, Tetra Tech EM Inc., Oakland, California
June 2, 2010, Tetra Tech EM Inc., Oakland, California
July 7, 2010, Tetra Tech EM Inc., Oakland, California
August 4, 2010, Tetra Tech EM Inc., Oakland, California
September 1, 2010, Tetra Tech EM Inc., Oakland, California
October 6, 2010, Tetra Tech EM Inc., Oakland, California
November 3, 2010 , Tetra Tech EM Inc., Oakland, California
December 1, 2010, Tetra Tech EM Inc., Oakland, California

Sign-In Sheet

Treasure Island BCT Meeting	Date: March 3, 2010	Time: 10:00 AM PST	Location: 1999 Harrison Street (Oakland)

Sign In	Name	Organization	Phone	Email (Optional)
	Scott Anderson	Navy	(619) 532-0938	scott.d.anderson@navy.mil
	Pete Bourgeois	Shaw	(415) 277-6983	Peter.bourgeois@shawgrp.com
	David Clark	Navy	619-532-0973	david.j.clark2@navy.mil
	Gary Foote	AMEC Geomatrix	(510) 663-4260	Gary.Foote@amec.com
	Kevin Hoch	Tetra Tech	(510) 302-6304	Kevin.hoch@ttemi.com
by phone	Tracy Jue	CDPH	(916) 324-4804	Tracy.Jue@cdph.ca.gov
	Christine Katin	US EPA	(415) 972-3112	Katin.Christine@epa.gov
	Tony Konzen	Navy	(619)-532-0924	anthony.konzen.ctr@navy.mil
	Campbell Merrifield	Tetra Tech	(510) 302-6339	Campbell.merrifield@ttemi.com
	Ryan Miya	DTSC	(510) 540-3775	RMiya@dtsc.ca.gov
	Marcie Rash	Tetra Tech	(510) 302-6324	marcie.rash@ttemi.com
	Charles Smith	Caltrans	(510) 286-5635	charles_smith@dot.ca.gov
	Ross Steenson	Water Board	(510) 622-2445	rsteenson@waterboards.ca.gov
	James Sullivan	Navy	(619) 532-0966	james.b.sullivan2@navy.mil
by phone	Medi Sunga	DTSC	(510)-540-3840	Rsunga@dtsc.ca.gov
by phone	Michael Tymoff	TIDA	(415) 554-7038	Michael.tymoff@sfgov.org
	Tommie Jean Valmassy	Tetra Tech	(510)-302-6232	tommiejean.valmassy@ttemi.com
	Bill Carson	Arcadis	510 596-9671	William.carson@arcadis-us.com
by phone	Patrick Owens	RASO		
by phone	Robert Wilson	CDPH		

ATTACHMENT 2

NAVY FUNDING AND PROJECT PRIORITY UPDATE

(1 Page)

Navy Funding/Project Priority Update for BCT Naval Station Treasure Island

(FY10 Funds – 1 Oct 09 to 30 Sept 10)

March 3, 2010

FY10 Funding Priority List:

1. Site 30 LUC Inspection/Reporting
2. Site 33 RD/RAWP and Remedial Action
3. Site 6 FS
4. Site 12 Backyard Soil Sampling
5. Site 12 FS/PP/ROD
6. Site 27 RD/RAWP and Remedial Action

ATTACHMENT 3

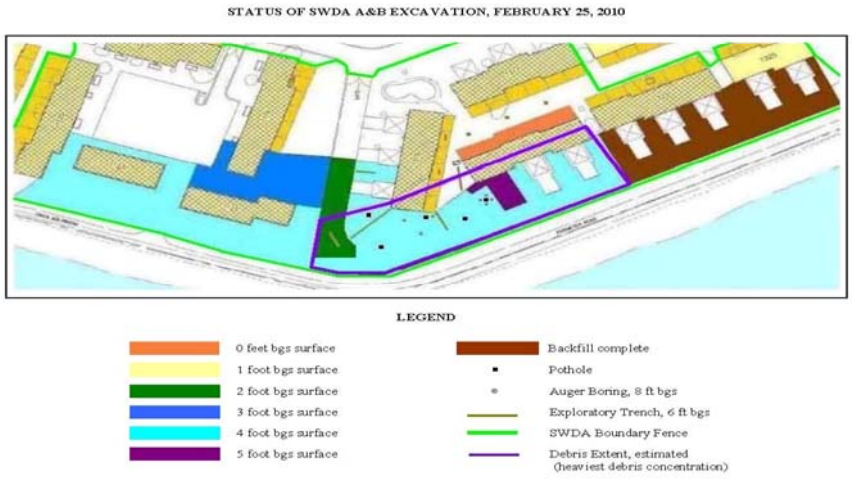
FIELD EFFORTS

(5 Pages)

Field Efforts
Solid Waste Disposal Areas

March 3, 2010
NAVSTA Treasure Island
BCT Meeting

Status at SWDA A&B



Work at SWDA A&B & Path Forward

- **Since project start 669 Bins have been shipped off Site for disposal, this equals roughly 15,250 tons of soil.**
- **129 Bins have been shipped since the restart of work.**
- **Excavation efforts are concentrated on the Westside Drive roadway.**
- **Due to weather Bins have not been removed from the site for 4-weeks.**

Work at SWDA A&B



Due to Rain, Work was Delayed for 2-Weeks

Work at SWDA A&B

Due to Rain, Work was Delayed for 2-Weeks

Work at SWDA A&B

Scanning of Removed Waterline was Completed During Rain Events

Work at SWDA A&B

Work at SWDA A&B

Work at SWDA A&B

Scanning Sidewalls of Excavation Area Back Side of Building 1123

SWDA Restoration

Project Duration: Updated Current Forecast:

Excavation Work at SWDA A&B Started on September 25, 2007

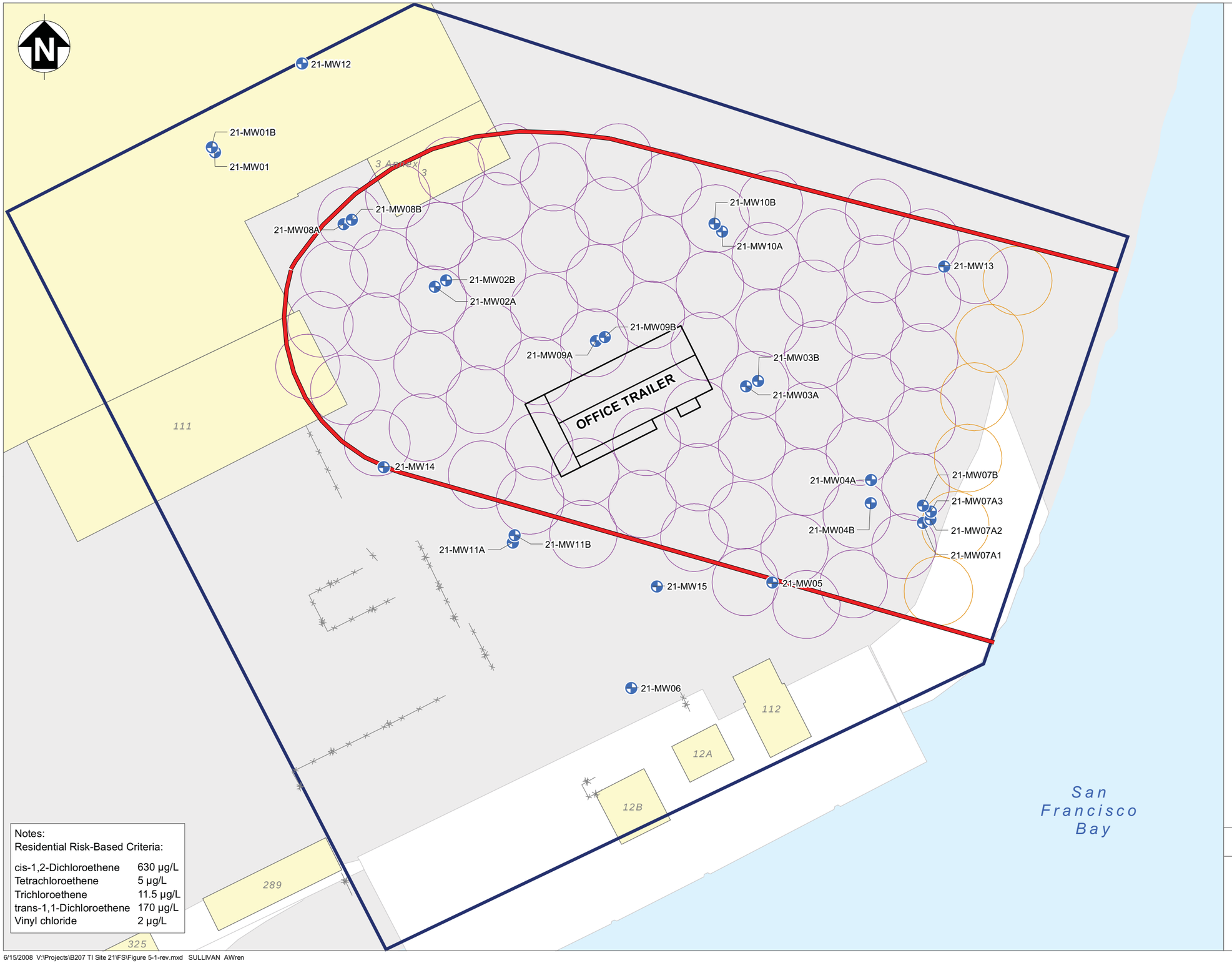
Next Navy RAB Meeting:
The Casa De la Vista
Tuesday, April 20th at 7:00 PM
James.b.sullivan2@navy.mil

Navy Web Site:
www.bracpmo.navy.mil

ATTACHMENT 4

FIGURE 5-1 PROPOSED ENHANCED ISB TREATMENT LAYOUT FOR ALTERNATIVE 3
AND
DATA FROM THE LAST FOUR QUARTERLY SAMPLING EVENTS
SITE 21

(6 Pages)



Notes:
Residential Risk-Based Criteria:

cis-1,2-Dichloroethene	630 µg/L
Tetrachloroethene	5 µg/L
Trichloroethene	11.5 µg/L
trans-1,1-Dichloroethene	170 µg/L
Vinyl chloride	2 µg/L

Naval Station Treasure Island
Department of the Navy, BRAC PMO West, San Diego, California

FIGURE 5-1
PROPOSED ENHANCED ISB TREATMENT LAYOUT FOR ALTERNATIVE 3
Focused Feasibility Study Report for Installation Restoration Site 21

6/15/2008 V:\Projects\B207 TI Site 21\FS\Figure 5-1-rev.mxd SULLIVAN AWren

Treasure Island, Site 21
Data From the Last Four Quarterly Sampling Events

Well ID		21-MW01A	21-MW01B	21-MW04A	21-MW04B	21-MW05	21-MW06
Sample Collection Date		1/21/2010	1/21/2010	1/27/2010	1/27/2010	1/26/2010	1/27/2010
Parameter	Units						
Volatile Organic Compounds (EPA 8260B)							
Tetrachloroethene	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Trichloroethene	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
cis-1,2-DCE	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
trans-1,2-DCE	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dichloroethene (total)	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Vinyl Chloride	µg/L	<0.5	<0.5	0.1	0.3	<0.5	<0.5
1,1-Dichloroethene	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total Chlorinated Ethenes	µg/L	0	0	0.1	0.3	0	0
Field Measurements							
pH	SU	7.87	7.76	7.27	7.19	6.82	6.84
Temperature	°C	15.91	16.59	15.54	16.53	15.33	16.22
Specific Conductance	mS/cm	2.530	12.910	17.92	9.302	39.01	26.88
Dissolved Oxygen (DO)	ppm	0.35	0.32	0.12	0.16	4.43	1.04
ORP	mV	19.8	-39.0	-98.7	-73.5	163.7	36.9

Well ID		21-MW07A1	21-MW07A2	21-MW07A3	21-MW07B	21-MW12	21-MW13	21-MW15
Sample Collection Date		1/28/2010	1/28/2010	1/28/2010	1/28/2010	1/21/2010	1/26/2010	1/27/2010
Parameter	Units							
Volatile Organic Compounds (EPA 8260B)								
Tetrachloroethene	µg/L	<0.5	<0.5	<0.5	<0.5	0.2	<0.5	<0.5
Trichloroethene	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
cis-1,2-DCE	µg/L	<0.5	<0.5	1.3	<0.5	<0.5	<0.5	<0.5
trans-1,2-DCE	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dichloroethene (total)	µg/L	<0.5	<0.5	1.3	<0.5	<0.5	<0.5	<0.5
Vinyl Chloride	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethene	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total Chlorinated Ethenes	µg/L	0	0	1.3	0	0.2	0	0
Field Measurements								
pH	SU	6.77	7.53	7.49	7.47	7.52	7.33	6.56
Temperature	°C	14.03	15.99	16.17	17.02	15.22	15.33	15.20
Specific Conductance	mS/cm	37.39	21.00	17.29	14.22	2.173	32.49	19.57
Dissolved Oxygen (DO)	ppm	4.49	0.11	0.11	0.10	0.30	3.42	1.60
ORP	mV	94.9	-101.1	-142.6	-71.8	59.3	100.6	164.4

Note: Samples from these wells were not analyzed for Sulfate, Alkalinity, Ferrous Iron, and Dissolved gases

Treasure Island, Site 21
Data From the Last Four Quarterly Sampling Events

Well ID		21-MW02A				21-MW02B			
Sample Collection Date		3/23/2009	6/25/2009	9/22/2009	1/21/2010	3/23/2009	6/25/2009	9/22/2009	1/26/2010
Parameter	Units								
Volatile Organic Compounds (EPA 8260B)									
Tetrachloroethene	µg/L	<5	<1.7	3.4	<0.5	<0.5	0.5	<0.5	<0.5
Trichloroethene	µg/L	2.8	1.3	4.7	0.2	<0.5	0.3	<0.5	<0.5
cis-1,2-DCE	µg/L	2,000	0.8	1.5	0.3	0.8	1.2	1.1	1.0
trans-1,2-DCE	µg/L	33	1.7	1.3	0.6	0.2	0.5	0.6	0.8
1,2-Dichloroethene (total)	µg/L	2,033	2.5	2.8	0.9	1.0	1.7	1.7	1.8
Vinyl Chloride	µg/L	430	<1.7	0.5	0.2	0.5	0.7	1.0	1.0
1,1-Dichloroethene	µg/L	3.3	<1.7	<1.7	<0.5	<0.5	<0.5	<0.5	<0.5
Total Chlorinated Ethenes	µg/L	2,469	3.8	11	1.3	1.5	3.2	2.7	2.8
Wet Chemistry Parameters									
Alkalinity (EPA 310.1)	mg/L	344	1,810	1,580	900	322			
Sulfate (EPA 300)	mg/L	42	0	0	60	127			
Ferrous Iron (Hach 8146)									
Ferrous Iron	mg/L	0.02	10.7	10.8	6.3	0.01	0.18	0.22	
Dissolved Gases (RSK 175)									
Methane	µg/L	3,100	11,000	9,200	12,000	65			
Ethane	µg/L	4	12	7	30	<1			
Ethene	µg/L	110	1	<5	<5	<1			
Field Measurements									
pH	SU	7.95	6.99	6.87	7.03	8.17	7.59	7.55	7.24
Temperature	°C	16.92	20.10	21.63	16.56	17.75	19.02	19.42	17.63
Specific Conductance	mS/cm	1.073	4.083	3.650	2.455	3.884	3.562	4.848	4.464
Dissolved Oxygen (DO)	ppm	0.36	0.44	0.18	0.32	0.20	0.44	0.10	0.34
ORP	mV	-153.6	-129.3	-122.3	-73.6	-148.0	-42.0	-157.9	-131.0

Well ID		21-MW03A				21-MW03B			
Sample Collection Date		3/23/2009	6/25/2009	9/22/2009	1/26/2010		6/25/2009	9/22/2009	1/26/2010
Parameter	Units								
Volatile Organic Compounds (EPA 8260B)									
Tetrachloroethene	µg/L	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5
Trichloroethene	µg/L	<0.5	0.2	<0.5	<0.5		<0.5	<0.5	<0.5
cis-1,2-DCE	µg/L	4.1	0.6	0.4	<0.5		<0.5	0.1	<0.5
trans-1,2-DCE	µg/L	0.5	0.2	<0.5	<0.5		0.3	0.3	<0.5
1,2-Dichloroethene (total)	µg/L	4.6	0.8	0.4	<0.5		0.3	0.4	<0.5
Vinyl Chloride	µg/L	4.7	0.5	0.3	0.2		0.1	0.3	0.4
1,1-Dichloroethene	µg/L	<0.5	<0.5	<0.5	<0.5		<0.5	<0.5	<0.5
Total Chlorinated Ethenes	µg/L	9.3	1.5	1.5	0.2		0.4	0.7	0.4
Wet Chemistry Parameters									
Alkalinity (EPA 310.1)	mg/L	664	990	940	930				
Sulfate (EPA 300)	mg/L	85	0	0	0				
Ferrous Iron (Hach 8146)									
Ferrous Iron	mg/L	0.04	0.02	6.05	10.2		3.88	5.18	
Dissolved Gases (RSK 175)									
Methane	µg/L	3,000	7,100	12,000	13,000				
Ethane	µg/L	35	13	28	41				
Ethene	µg/L	8	5	1	3				
Field Measurements									
pH	SU	7.93	7.08	7.11	7.02		7.06	7.04	7.06
Temperature	°C	16.26	20.02	21.14	16.68		18.17	19.41	17.70
Specific Conductance	mS/cm	1.593	2.145	2.105	2.189		5.011	6.162	5.795
Dissolved Oxygen (DO)	ppm	0.38	0.27	0.25	0.20		0.35	0.17	0.30
ORP	mV	-159.9	-150.3	-174.1	-131.8		-102.4	-131.4	-97.5

Treasure Island, Site 21
Data From the Last Four Quarterly Sampling Events

Well ID		21-MW08A				21-MW08B			
Sample Collection Date		3/23/2009	6/25/2009	9/22/2009	1/28/2010	3/23/2009	6/25/2009	9/22/2009	1/28/2010
Parameter	Units								
Volatile Organic Compounds (EPA 8260B)									
Tetrachloroethene	µg/L	13	<10	2.1	10	<0.5	<0.5	<0.5	<0.5
Trichloroethene	µg/L	9.9	2.4	2.5	2.9	<0.5	<0.5	<0.5	<0.5
cis-1,2-DCE	µg/L	11	29	20	4.1	<0.5	0.4	0.4	<0.5
trans-1,2-DCE	µg/L	<0.5	<10	<2.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dichloroethene (total)	µg/L	11	29	20	4.1	<0.5	0.4	0.4	<0.5
Vinyl Chloride	µg/L	<0.5	<10	5.0	0.9	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethene	µg/L	<0.5	<10	<2.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total Chlorinated Ethenes	µg/L	34	31	30	18	0	0.4	0.4	0
Wet Chemistry Parameters									
Alkalinity (EPA 310.1)	mg/L	1,880	950	628	434	304			
Sulfate (EPA 300)	mg/L	0	0	102	71	155			
Ferrous Iron (Hach 8146)									
Ferrous Iron	mg/L	13.4	32.4	18.0	7.20	0.03	0.44	0.36	
Dissolved Gases (RSK 175)									
Methane	µg/L	12	6,300	10,000	4,900	90			
Ethane	µg/L	<1	<5	0.3	<5	<1			
Ethene	µg/L	2	<5	2	1	<1			
Field Measurements									
pH	SU	6.97	6.57	6.71	6.29	8.23	7.58	7.55	7.44
Temperature	°C	17.25	19.79	23.45	15.40	17.36	17.89	18.53	16.78
Specific Conductance	mS/cm	6.752	3.188	1.860	1.084	10.76	11.89	11.73	11.80
Dissolved Oxygen (DO)	ppm	0.48	0.64	0.28	0.46	0.11	0.34	0.14	0.35
ORP	mV	-98.8	-49.0	-126.7	-24.0	-141.5	-37.0	-132.9	-26.0

Well ID		21-MW09A				21-MW09B			
Sample Collection Date		3/23/2009	6/24/2009	9/22/2009	1/26/2010	3/23/2009	6/25/2009	9/22/2009	1/26/2010
Parameter	Units								
Volatile Organic Compounds (EPA 8260B)									
Tetrachloroethene	µg/L	0.3	2.8	3.1	0.7	<0.5	<0.5	<0.5	<0.5
Trichloroethene	µg/L	0.6	19	21	14	<0.5	<0.5	0.6	<0.5
cis-1,2-DCE	µg/L	21	18	53	73	<0.5	<0.5	0.3	<0.5
trans-1,2-DCE	µg/L	0.8	5.3	7.8	9.7	<0.5	<0.5	0.1	<0.5
1,2-Dichloroethene (total)	µg/L	22	23	61	83	<0.5	<0.5	0.4	<0.5
Vinyl Chloride	µg/L	2.8	3.7	6.8	18	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethene	µg/L	<0.5	0.1	0.3	<0.5	<0.5	<0.5	<0.5	<0.5
Total Chlorinated Ethenes	µg/L	26	49	92	115	0	0	1.0	0
Wet Chemistry Parameters									
Alkalinity (EPA 310.1)	mg/L	582	520	624	780	290			
Sulfate (EPA 300)	mg/L	153	498	502	373	169			
Ferrous Iron (Hach 8146)									
Ferrous Iron	mg/L	0.08	13.3	14.3	16.4	0.02	0.69	0.55	
Dissolved Gases (RSK 175)									
Methane	µg/L	120	7,200	4,800	5,000	52			
Ethane	µg/L	3	11	17	31	<2			
Ethene	µg/L	<1	2	4	14	<2			
Field Measurements									
pH	SU	8.17	6.80	6.68	6.34	7.92	7.53	7.32	7.34
Temperature	°C	13.37	19.44	19.48	14.38	17.73	18.38	18.52	17.07
Specific Conductance	mS/cm	1.939	1.976	1.951	2.210	12.67	13.16	12.89	12.60
Dissolved Oxygen (DO)	ppm	-	0.42	0.33	0.21	-	0.67	0.16	0.27
ORP	mV	-124.8	-106.9	-111.3	-58.6	-111.6	-96.5	-149.6	-117.6

Treasure Island, Site 21
Data From the Last Four Quarterly Sampling Events

Well ID		21-MW10A				21-MW10B			
Sample Collection Date		3/24/2009	6/24/2009	9/22/2009	1/27/2010	3/24/2009	6/24/2009		1/27/2010
Parameter	Units								
Volatile Organic Compounds (EPA 8260B)									
Tetrachloroethene	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5
Trichloroethene	µg/L	0.9	0.4	0.7	<0.5	<0.5	<0.5		<0.5
cis-1,2-DCE	µg/L	3.1	1.0	1.7	1.2	<0.5	0.2		<0.5
trans-1,2-DCE	µg/L	0.5	0.7	0.8	0.7	<0.5	<0.5		<0.5
1,2-Dichloroethene (total)	µg/L	3.6	1.7	2.5	1.9	<0.5	0.2		<0.5
Vinyl Chloride	µg/L	2.2	0.5	0.6	0.6	<0.5	<0.5		<0.5
1,1-Dichloroethene	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		<0.5
Total Chlorinated Ethenes	µg/L	6.7	2.6	3.8	2.5	0	0.2		0
Wet Chemistry Parameters									
Alkalinity (EPA 310.1)	mg/L	562	460	408	300	194			
Sulfate (EPA 300)	mg/L	16	0	18	65	165			
Ferrous Iron (Hach 8146)									
Ferrous Iron	mg/L	17.2	9.6	6.30	3.68	0.01	0.24		
Dissolved Gases (RSK 175)									
Methane	µg/L	9,100	6,800	7,000	3,400	21			
Ethane	µg/L	<2	1	2	1	<1			
Ethene	µg/L	<2	<5	0.4	<5	<1			
Field Measurements									
pH	SU	7.33	6.84	6.94	6.75	8.41	7.69		7.36
Temperature	°C	17.03	19.40	19.69	15.99	18.36	18.48		17.55
Specific Conductance	mS/cm	1.439	1.012	0.986	0.771	10.13	10.35		10.79
Dissolved Oxygen (DO)	ppm	-	0.53	0.27	0.39	-	0.66		0.18
ORP	mV	-104.0	-113.4	-112.8	-66.0	-92.8	-64.3		-58.1

Well ID		21-MW11A				21-MW11B			
Sample Collection Date		3/24/2009	6/29/2009		1/27/2010	3/24/2009	6/29/2009		1/27/2010
Parameter	Units								
Volatile Organic Compounds (EPA 8260B)									
Tetrachloroethene	µg/L	0.3	0.2		<0.5	<0.5	<0.5		<0.5
Trichloroethene	µg/L	0.2	0.5		<0.5	<0.5	<0.5		<0.5
cis-1,2-DCE	µg/L	0.5	1.4		0.8	<0.5	<0.5		<0.5
trans-1,2-DCE	µg/L	<0.5	<0.5		<0.5	<0.5	<0.5		<0.5
1,2-Dichloroethene (total)	µg/L	0.5	1.4		0.8	<0.5	<0.5		<0.5
Vinyl Chloride	µg/L	<0.5	<0.5		<0.5	<0.5	<0.5		<0.5
1,1-Dichloroethene	µg/L	<0.5	<0.5		<0.5	<0.5	<0.5		<0.5
Total Chlorinated Ethenes	µg/L	1.0	2.1		0.8	0	0		0
Wet Chemistry Parameters									
Alkalinity (EPA 310.1)	mg/L	142	202		270	426			
Sulfate (EPA 300)	mg/L	64	33		64	174			
Ferrous Iron (Hach 8146)									
Ferrous Iron	mg/L	0.08	1.92		2.18	0.46	0.65		
Dissolved Gases (RSK 175)									
Methane	µg/L	27	5,900			75			
Ethane	µg/L	<1	<5			<1			
Ethene	µg/L	<1	<5			<1			
Field Measurements									
pH	SU	7.75	7.10		8.59	8.24	7.54		8.00
Temperature	°C	15.42	18.67		15.05	17.83	18.67		17.28
Specific Conductance	mS/cm	0.700	0.603		0.685	15.98	15.93		16.22
Dissolved Oxygen (DO)	ppm	1.53	0.53		0.20	0.21	0.47		0.15
ORP	mV	22.8	21.2		-28.2	-90.1	26.1		-69.1

Treasure Island, Site 21
Data From the Last Four Quarterly Sampling Events

Well ID		21-MW14A			
Sample Collection Date		3/24/2009	6/29/2009		1/26/2010
Parameter	Units				
Volatile Organic Compounds (EPA 8260B)					
Tetrachloroethene	µg/L	1.4	2.7		1.4
Trichloroethene	µg/L	0.4	1.2		0.6
cis-1,2-DCE	µg/L	<0.5	<0.5		<0.5
trans-1,2-DCE	µg/L	<0.5	<0.5		<0.5
1,2-Dichloroethene (total)	µg/L	<0.5	<0.5		<0.5
Vinyl Chloride	µg/L	<0.5	<0.5		<0.5
1,1-Dichloroethene	µg/L	<0.5	<0.5		<0.5
Total Chlorinated Ethenes	µg/L	1.8	3.9		2.0
Wet Chemistry Parameters					
Alkalinity (EPA 310.1)	mg/L	226	300		
Sulfate (EPA 300)	mg/L	75	76		
Ferrous Iron (Hach 8146)					
Ferrous Iron	mg/L	0.77	1.76		
Dissolved Gases (RSK 175)					
Methane	µg/L	<1			
Ethane	µg/L	<1			
Ethene	µg/L	<1			
Field Measurements					
pH	SU	7.69	7.11		7.28
Temperature	°C	16.05	19.83		14.65
Specific Conductance	mS/cm	0.750	0.996		0.797
Dissolved Oxygen (DO)	ppm	1.30	0.47		1.60
ORP	mV	-83.6	13.8		111.9

ATTACHMENT 5

FIELD ACTIVITIES
AND
SUMMARY OF ANALYTICAL RESULTS FOR CONFIRMATION SAMPLES
SITE 31
AND
FIGURE 2 SITE 31 PROPOSED SOIL CONTAMINATION SAMPLE LOCATIONS

(10 Pages)

Naval Station Treasure Island

Field Activities

Site 31

March 3, 2010 BCT Meeting

Site 31 Path Forward

- **Field Mobilization began February 1st**
- **Excavation Efforts began February 2nd with the Removal of the Asphalt from 11th Street and Schoolyard**
- **Field Work will Require roughly 2 Months**

Site 31 Excavation

Excavation Along 11th Street

Site 31 Excavation

Site 31 T&D Activities

Site 31 T&D Actiities

Site 31 T&D Activities

SUMMARY OF ANALYTICAL RESULTS FOR CONFIRMATION SAMPLES TREASURE ISLAND SITE 31

	A	B	C	D	E	F	G	H	I
1	**SAMPLE ID**			**TI31C-SW11**	**TI31C-SW12**	**TI31C-SW13**	**TI31C-SW14**	**TI31C-SW15**	**TI31C-SW16**
2	**DATE COLLECTED**			**2/17/2010**	**2/11/2010**	**2/11/2010**	**2/11/2010**	**2/11/2010**	**2/11/2010**
3	**Sample Depth**			**1.2-3 ft bgs**	**2-4 ft bgs**	**2-4 ft bgs**	**1-2 ft bgs**	**2-4 ft bgs**	**2.5-3 ft bgs**
4	**PARAMETER**	**Project Action Limit**	**UNITS**						
5	**METALS**								
6	Lead	**400**	mg/kg	8.77	1.7	1.87	4.32	1.36	1.92
7									
8	**PAHs**								
9	2-Methylnaphthalene	--	mg/kg	<0.011	<0.011	<0.012	<0.011	<0.011	<0.011
10	Acenaphthene	--	mg/kg	<0.011	<0.011	<0.012	<0.011	<0.011	<0.011
11	Acenaphthylene	--	mg/kg	<0.011	<0.011	<0.012	<0.011	<0.011	<0.011
12	Anthracene	--	mg/kg	<0.011	<0.011	<0.012	<0.011	<0.011	<0.011
13	Benzo(a)anthracene	--	mg/kg	<0.011	<0.011	<0.012	<0.011	<0.011	<0.011
14	Benzo(a)pyrene	--	mg/kg	<0.011	<0.011	<0.012	<0.011	<0.011	<0.011
15	Benzo(b)fluoranthene	--	mg/kg	<0.011	<0.011	<0.012	<0.011	<0.011	<0.011
16	Benzo(g,h,i)perylene	--	mg/kg	<0.011	<0.011	<0.012	<0.011	<0.011	<0.011
17	Benzo(k)fluoranthene	--	mg/kg	<0.011	<0.011	<0.012	<0.011	<0.011	<0.011
18	Chrysene	--	mg/kg	<0.011	<0.011	<0.012	<0.011	<0.011	<0.011
19	Dibenz(a,h)anthracene	--	mg/kg	<0.011	<0.011	<0.012	<0.011	<0.011	<0.011
20	Fluoranthene	--	mg/kg	<0.011	<0.011	<0.012	<0.011	<0.011	<0.011
21	Fluorene	--	mg/kg	<0.011	<0.011	<0.012	<0.011	<0.011	<0.011
22	Indeno(1,2,3-cd)pyrene	--	mg/kg	<0.011	<0.011	<0.012	<0.011	<0.011	<0.011
23	Naphthalene	**1.7**	mg/kg	<0.011	<0.011	<0.012	<0.011	<0.011	<0.011
24	Phenanthrene	--	mg/kg	<0.011	<0.011	<0.012	<0.011	<0.011	<0.011
25	Pyrene	--	mg/kg	<0.011	<0.011	<0.012	<0.011	<0.011	<0.011
26									
27	**BaPeq**	**0.62(equivalent)**	mg/kg	0.03	0.03	0.03	0.03	0.03	0.03
28									
29	**DIOXIN**								
30	Treasure Island Ambient (TEF/TEQ)	**12.0** **3.9**	ng/kg	0.606	0.003	0.008	0.002	0.001	1.74
31									
32									
33	BaPeq = Benzo(a)pyrene Equivalency Calculation								
34	TEF = Dioxin Toxic Equivalency Factor								
35	TEQ = Dioxin Toxic Equivalency Quantity								
36	J = estimated value								
37	B= associated analyte is found in the method blank								
38	C= confimation of the TCDF compound								
39	E= compound has exceeded the MCL								
40	K= estimate maximum possible concentration for the associated compound								

SUMMARY OF ANALYTICAL RESULTS FOR CONFIRMATION SAMPLES TREASURE ISLAND SITE 31

	A	B	C	J	K	L	M	N	O
1	**SAMPLE ID**			**TI31C-SW17**	**TI31C-SW18**	**TI31C-SW19**	**TI31C-EF23**	**TI31E-SW37**	**TI31E-SW38**
2	**DATE COLLECTED**			**2/11/2010**	**2/11/2010**	**2/17/2010**	**2/11/2010**	**2/16/2010**	**2/16/2010**
3	**Sample Depth**			**2.5-3 ft bgs**	**2.5-3 ft bgs**	**1.2-3 ft bgs**	**6 ft bgs**	**1.5-2.5 ft bgs**	**1.5-2.5 ft bgs**
4	**PARAMETER**	**Project Action Limit**	**UNITS**						
5	**METALS**								
6	Lead	**400**	mg/kg	1.19	8.64	108	1.71	1.27	1.55
7									
8	**PAHs**								
9	2-Methylnaphthalene	--	mg/kg	<0.011	<0.011	<0.012	<0.012	<0.010	<0.011
10	Acenaphthene	--	mg/kg	<0.011	<0.011	<0.012	<0.012	<0.010	<0.011
11	Acenaphthylene	--	mg/kg	<0.011	<0.011	<0.012	<0.012	<0.010	<0.011
12	Anthracene	--	mg/kg	<0.011	<0.011	<0.012	<0.012	<0.010	<0.011
13	Benzo(a)anthracene	--	mg/kg	<0.011	<0.011	<0.012	<0.012	<0.010	<0.011
14	Benzo(a)pyrene	--	mg/kg	<0.011	<0.011	<0.012	<0.012	<0.010	<0.011
15	Benzo(b)fluoranthene	--	mg/kg	<0.011	<0.011	<0.012	<0.012	<0.010	<0.011
16	Benzo(g,h,i)perylene	--	mg/kg	<0.011	<0.011	<0.012	<0.012	<0.010	<0.011
17	Benzo(k)fluoranthene	--	mg/kg	<0.011	<0.011	<0.012	<0.012	<0.010	<0.011
18	Chrysene	--	mg/kg	<0.011	<0.011	<0.012	<0.012	<0.010	<0.011
19	Dibenz(a,h)anthracene	--	mg/kg	<0.011	<0.011	<0.012	<0.012	<0.010	<0.011
20	Fluoranthene	--	mg/kg	<0.011	<0.011	<0.012	<0.012	<0.010	<0.011
21	Fluorene	--	mg/kg	<0.011	<0.011	<0.012	<0.012	<0.010	<0.011
22	Indeno(1,2,3-cd)pyrene	--	mg/kg	<0.011	<0.011	<0.012	<0.012	<0.010	<0.011
23	Naphthalene	**1.7**	mg/kg	<0.011	<0.011	<0.012	<0.012	<0.010	<0.011
24	Phenanthrene	--	mg/kg	<0.011	<0.011	<0.012	<0.012	<0.010	<0.011
25	Pyrene	--	mg/kg	<0.011	<0.011	<0.012	<0.012	<0.010	<0.011
26									
27	**BaPeq**	**0.62(equivalent)**	mg/kg	0.03	0.03	0.03	0.03	0.02	0.03
28									
29	**DIOXIN**								
30	Treasure Island Ambient (TEF/TEQ)	**12.0** **3.9**	ng/kg	0.004	0.524	0.063	0.004	0.004	0.006
31									
32									
33	BaPeq = Benzo(a)pyrene Equivalency Calculation								
34	TEF = Dioxin Toxic Equivalency Factor								
35	TEQ = Dioxin Toxic Equivalency Quantity								
36	J = estimated value								
37	B= associated analyte is found in the method blank								
38	C= confimation of the TCDF compound								
39	E= compound has exceeded the MCL								
40	K= estimate maximum possible concentration for the associated com								

SUMMARY OF ANALYTICAL RESULTS FOR CONFIRMATION SAMPLES TREASURE ISLAND SITE 31

	A	B	C	P	Q	R	S	T	U
1	**SAMPLE ID**			**TI31E-SW39**	**TI31E-EF40**	**TI31E-EF41**	**TI31E-SW43**	**TI31C-EF45**	**TI31C-EF46**
2	**DATE COLLECTED**			**2/16/2010**	**2/16/2010**	**2/17/2010**	**2/22/2010**	**2/11/2010**	**2/11/2010**
3	**Sample Depth**			**1.5-2.5 ft bgs**	**6 ft bgs**	**6 ft bgs**	**1.5-3.0 ft bgs**	**6 ft bgs**	**6 ft bgs**
4	**PARAMETER**	**Project Action Limit**	**UNITS**						
5	**METALS**								
6	Lead	**400**	mg/kg	1.60	21.5	5.41	**2280**	11.1	2.21
7									
8	**PAHs**								
9	2-Methylnaphthalene	--	mg/kg	<0.011	<0.013	<0.013	--	<0.012	<0.013
10	Acenaphthene	--	mg/kg	<0.011	<0.013	<0.013	--	<0.012	<0.013
11	Acenaphthylene	--	mg/kg	<0.011	<0.013	<0.013	--	<0.012	<0.013
12	Anthracene	--	mg/kg	<0.011	<0.013	<0.013	--	<0.012	<0.013
13	Benzo(a)anthracene	--	mg/kg	<0.011	0.025	<0.013	--	<0.012	<0.013
14	Benzo(a)pyrene	--	mg/kg	<0.011	0.043	<0.013	--	<0.012	<0.013
15	Benzo(b)fluoranthene	--	mg/kg	<0.011	0.026	<0.013	--	<0.012	<0.013
16	Benzo(g,h,i)perylene	--	mg/kg	<0.011	0.046	<0.013	--	<0.012	<0.013
17	Benzo(k)fluoranthene	--	mg/kg	<0.011	0.028	<0.013	--	<0.012	<0.013
18	Chrysene	--	mg/kg	<0.011	0.029	<0.013	--	<0.012	<0.013
19	Dibenz(a,h)anthracene	--	mg/kg	<0.011	<0.013	<0.013	--	<0.012	<0.013
20	Fluoranthene	--	mg/kg	<0.011	0.024	<0.013	--	<0.012	<0.013
21	Fluorene	--	mg/kg	<0.011	<0.013	<0.013	--	<0.012	<0.013
22	Indeno(1,2,3-cd)pyrene	--	mg/kg	<0.011	0.036	<0.013	--	<0.012	<0.013
23	Naphthalene	**1.7**	mg/kg	<0.011	0.019	<0.013	--	<0.012	<0.013
24	Phenanthrene	--	mg/kg	<0.011	<0.013	<0.013	--	<0.012	<0.013
25	Pyrene	--	mg/kg	<0.011	0.039	<0.013	--	<0.012	<0.013
26									
27	**BaPeq**	**0.62(equivalent)**	mg/kg	0.03	0.07	0.03	--	0.03	0.03
28									
29	**DIOXIN**								
30	Treasure Island Ambient (TEF/TEQ)	**12.0** **3.9**	ng/kg	0.004	0.755	0.006	--	0.520	0.020
31									
32									
33	BaPeq = Benzo(a)pyrene Equivalency Calculation								
34	TEF = Dioxin Toxic Equivalency Factor								
35	TEQ = Dioxin Toxic Equivalency Quantity								
36	J = estimated value								
37	B= associated analyte is found in the method blank								
38	C= confimation of the TCDF compound								
39	E= compound has exceeded the MCL								
40	K= estimate maximum possible concentration for the associated com								

SUMMARY OF ANALYTICAL RESULTS FOR CONFIRMATION SAMPLES TREASURE ISLAND SITE 31

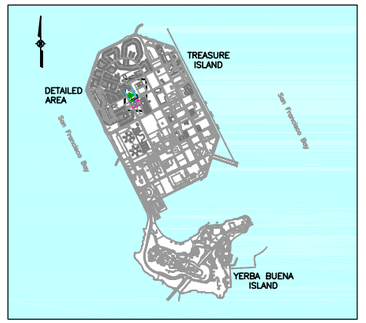
	A	B	C	V	W	X	Y	Z	AA
1	**SAMPLE ID**			**TI31C-EF47**	**TI31C-EF48**	**TI31C-EF49**	**TI31C-EF50**	**TI31C-EF51**	**TI31E-EF52**
2	**DATE COLLECTED**			**2/11/2010**	**2/11/2010**	**2/11/2010**	**2/11/2010**	**2/11/2010**	**2/16/2010**
3	**Sample Depth**			**6 ft bgs**	**6 ft bgs**	**6 ft bgs**	**6 ft bgs**	**6 ft bgs**	**6 ft bgs**
4	**PARAMETER**	**Project Action Limit**	**UNITS**						
5	**METALS**								
6	Lead	**400**	mg/kg	2.36	2.36	1.69	1.57	3.12	2.93
7									
8	**PAHs**								
9	2-Methylnaphthalene	--	mg/kg	<0.013	<0.013	<0.012	<0.012	<0.013	<0.013
10	Acenaphthene	--	mg/kg	<0.013	<0.013	<0.012	<0.012	<0.013	<0.013
11	Acenaphthylene	--	mg/kg	<0.013	<0.013	<0.012	<0.012	<0.013	<0.013
12	Anthracene	--	mg/kg	<0.013	<0.013	<0.012	<0.012	<0.013	<0.013
13	Benzo(a)anthracene	--	mg/kg	<0.013	<0.013	<0.012	<0.012	<0.013	<0.013
14	Benzo(a)pyrene	--	mg/kg	<0.013	<0.013	<0.012	<0.012	<0.013	<0.013
15	Benzo(b)fluoranthene	--	mg/kg	<0.013	<0.013	<0.012	<0.012	<0.013	<0.013
16	Benzo(g,h,i)perylene	--	mg/kg	<0.013	<0.013	<0.012	<0.012	<0.013	<0.013
17	Benzo(k)fluoranthene	--	mg/kg	<0.013	<0.013	<0.012	<0.012	<0.013	<0.013
18	Chrysene	--	mg/kg	<0.013	<0.013	<0.012	<0.012	<0.013	<0.013
19	Dibenz(a,h)anthracene	--	mg/kg	<0.013	<0.013	<0.012	<0.012	<0.013	<0.013
20	Fluoranthene	--	mg/kg	<0.013	<0.013	<0.012	<0.012	<0.013	<0.013
21	Fluorene	--	mg/kg	<0.013	<0.013	<0.012	<0.012	<0.013	<0.013
22	Indeno(1,2,3-cd)pyrene	--	mg/kg	<0.013	<0.013	<0.012	<0.012	<0.013	<0.013
23	Naphthalene	**1.7**	mg/kg	<0.013	<0.013	<0.012	<0.012	<0.013	<0.013
24	Phenanthrene	--	mg/kg	<0.013	<0.013	<0.012	<0.012	<0.013	<0.013
25	Pyrene	--	mg/kg	<0.013	<0.013	<0.012	<0.012	<0.013	<0.013
26									
27	**BaPeq**	**0.62(equivalent)**	mg/kg	0.03	0.03	0.03	0.03	0.03	0.03
28									
29	**DIOXIN**								
30	Treasure Island Ambient (TEF/TEQ)	**12.0** **3.9**	ng/kg	0.003	0.005	0.002	0.006	0.015	0.014
31									
32									
33	BaPeq = Benzo(a)pyrene Equivalency Calculation								
34	TEF = Dioxin Toxic Equivalency Factor								
35	TEQ = Dioxin Toxic Equivalency Quantity								
36	J = estimated value								
37	B= associated analyte is found in the method blank								
38	C= confimation of the TCDF compound								
39	E= compound has exceeded the MCL								
40	K= estimate maximum possible concentration for the associated com								

SUMMARY OF ANALYTICAL RESULTS FOR CONFIRMATION SAMPLES TREASURE ISLAND SITE 31

	A	B	C	AB	AC	AD	AE	AF	AG
1	**SAMPLE ID**			**TI31C-SW59**	**TI31C-SW60**	**TI31C-SW61**	**TI31C-SW62**	**TI31C-SW63**	**TI31C-SW64**
2	**DATE COLLECTED**			**2/18/2010**	**2/17/2010**	**2/17/2010**	**2/17/2010**	**2/17/2010**	**2/17/2010**
3	**Sample Depth**			**1.2-3 ft bgs**	**1.2-3 ft bgs**	**1.2-3 ft bgs**	**2-4 ft bgs**	**2-4 ft bgs**	**2-4 ft bgs**
4	**PARAMETER**	**Project Action Limit**	**UNITS**						
5	**METALS**								
6	Lead	**400**	mg/kg	17.5	3.70	6.03	1.95	61.4	2.94
7									
8	**PAHs**								
9	2-Methylnaphthalene	--	mg/kg	0.056	<0.013	<0.010	<0.011	<0.011	<0.013
10	Acenaphthene	--	mg/kg	0.044	<0.013	<0.010	<0.011	<0.011	<0.013
11	Acenaphthylene	--	mg/kg	<0.011	<0.013	<0.010	<0.011	<0.011	<0.013
12	Anthracene	--	mg/kg	0.076	<0.013	<0.010	<0.011	<0.011	<0.013
13	Benzo(a)anthracene	--	mg/kg	0.16	<0.013	<0.010	<0.011	<0.011	<0.013
14	Benzo(a)pyrene	--	mg/kg	0.1	<0.013	<0.010	<0.011	<0.011	<0.013
15	Benzo(b)fluoranthene	--	mg/kg	0.095	<0.013	<0.010	<0.011	<0.011	<0.013
16	Benzo(g,h,i)perylene	--	mg/kg	0.044	<0.013	<0.010	<0.011	<0.011	<0.013
17	Benzo(k)fluoranthene	--	mg/kg	0.078	<0.013	<0.010	<0.011	<0.011	<0.013
18	Chrysene	--	mg/kg	0.16	<0.013	<0.010	<0.011	<0.011	<0.013
19	Dibenz(a,h)anthracene	--	mg/kg	0.017	<0.013	<0.010	<0.011	<0.011	<0.013
20	Fluoranthene	--	mg/kg	0.35	<0.013	<0.010	<0.011	<0.011	<0.013
21	Fluorene	--	mg/kg	0.037	<0.013	<0.010	<0.011	<0.011	<0.013
22	Indeno(1,2,3-cd)pyrene	--	mg/kg	0.045	<0.013	<0.010	<0.011	<0.011	<0.013
23	Naphthalene	**1.7**	mg/kg	0.023	<0.013	<0.010	<0.011	<0.011	<0.013
24	Phenanthrene	--	mg/kg	0.32	<0.013	<0.010	<0.011	<0.011	<0.013
25	Pyrene	--	mg/kg	0.32	<0.013	<0.010	<0.011	<0.011	<0.013
26									
27	**BaPeq**	**0.62(equivalent)**	mg/kg	0.16	0.03	0.02	0.03	0.03	0.03
28									
29	**DIOXIN**								
30	Treasure Island Ambient (TEF/TEQ)	**12.0** **3.9**	ng/kg	0.347	0.036	0.002	0.004	2.89	0.124
31									
32									
33	BaPeq = Benzo(a)pyrene Equivalency Calculation								
34	TEF = Dioxin Toxic Equivalency Factor								
35	TEQ = Dioxin Toxic Equivalency Quantity								
36	J = estimated value								
37	B= associated analyte is found in the method blank								
38	C= confimation of the TCDF compound								
39	E= compound has exceeded the MCL								
40	K= estimate maximum possible concentration for the associated com								

DRAWN BY	CHECKED BY	APPROVED BY	DRAWING NUMBER
SCHAEFFER 3/2/10	BH 3/2/10	PB 3/2/10	133373-B19

IMAGE	X-REF	OFFICE
---	---	TI



LEGEND:

- AREA WHERE DEBRIS HAS BEEN REMOVED
- PARCEL T094
- IR SITE 31 BOUNDARY
- BUILDING
- PROPOSED INITIAL EXCAVATION LIMITS
- SIDEWALL CONFIRMATION SAMPLE LOCATION
- BOTTOM CONFIRMATION SAMPLE LOCATION
- BELOW CRITERIA SIDEWALL CONFIRMATION SAMPLE
- BELOW CRITERIA BOTTOM CONFIRMATION SAMPLE
- ABOVE CRITERIA SIDEWALL CONFIRMATION SAMPLE
- ABOVE CRITERIA BOTTOM CONFIRMATION SAMPLE
- 50'x50' GRID LINE FOR CONFIRMATION BOTTOM SAMPLE

NOTE:
ALL PROPOSED EXCAVATION DEPTHS ARE 6' BELOW GROUND SURFACE.

SCALE
0 50 100 FEET

Shaw® Shaw Environmental, Inc.

DEPARTMENT OF THE NAVY
BRAC PMO WEST
SAN DIEGO, CALIFORNIA

FIGURE 2
SITE 31
PROPOSED SOIL CONFIRMATION SAMPLE LOCATIONS

ATTACHMENT 6

DOCUMENT TRACKING SHEET

(2 Pages)

Naval Station Treasure Island
Environmental Cleanup Program
Document Tracking Sheet
March 2010 - September 2010

			INTERNAL DRAFT		DRAFT									RTC			INTERNAL FINAL		FINAL		
						Agency Comments															
Item	Document Title & Information	CTO/DO	Internal Draft Due to Navy	Navy Comments Due	Draft to Agencies	Date Due	DTSC	Water Board	EPA	TIDA	RAB	OTHER	Priority Level	Preliminary RTCs to Agencies	Resolve and Concur on RTCs		Internal Final to Navy	Navy Comments Due	Final to Agencies		Comments
	Shaw Group																				
1	**Site 32 Post Construction Summary Report for PCBs in Soil** RPM: Scott Anderson PM: Pete Bourgeois	FZN1	TBD		TBD		TBD								TBD		TBD		TBD		TBD		
	Tetra Tech EM Inc.																				
2	**Site 33 Remedial Investigation Report** RPM: Scott Anderson PM: Kevin Hoch	489	09/07/06	✔	10/16/06	✔	10/17/08	✔	01/06/09	✔	✔	✔	✔			06/25/09	✔	07/22/09	✔	03/05/10		03/19/10		04/02/10		
3	**Site 27 Feasibility Study** RPM: Lora Battaglia PM: Katie Henry	FZN6	09/24/08	✔	11/07/08	✔	12/29/08	✔	02/27/09	✔	✔	✔	✔		✔	10/27/09	✔	03/03/10		03/31/10		04/21/10		05/20/10		
4	**Island Times Newsletter #16** RPM: Jim Sullivan PM: Marcie Rash	FZN6	01/21/10	✔	02/05/10	✔	02/12/10	✔	03/05/10	✔	✔					NA		NA		03/12/10		03/19/10		03/26/10		
5	**2010 Site Management Plan** RPM: Dave Clark PM: Marcie Rash	FZN6	03/09/10		04/08/10		04/18/10		05/18/10							06/08/10		06/15/10		07/15/10		07/25/10		08/08/10		

Date Last Revised: 3/3/2010

Naval Station Treasure Island
Environmental Cleanup Program
Document Tracking Sheet
March 2010 - September 2010

			INTERNAL DRAFT		DRAFT									RTC			INTERNAL FINAL		FINAL		
						Agency Comments															
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	Trevet																				
6	**2008 Site 6 & 12 Annual Groundwater Sampling Report** RPM: Tony Konzen PM: Greg Alyanakian	9002	08/28/09	✔	09/10/09	✔	10/09/09	✔	11/07/09	✔	✔	✔	✔				12/18/09	✔	02/11/10	✔	02/17/10	✔	02/24/10	✔	03/02/10	✔	
7	**Site 30 Land Use Control Work Plan** RPM: Scott Anderson PM: Greg Alyanakian	9002	4/20/09* 6/11/09**	✔ ✔	5/1/09 7/11/09	✔ ✔	03/03/10		04/02/10								04/30/10		05/07/10		05/21/10		06/11/10		06/25/10		* Navy technical review ** Navy legal review
8	**2009 Site 6 & 12 Annual Groundwater Sampling Report** RPM: Tony Konzen PM: Greg Alyanakian	9002	04/04/10		04/18/10		04/25/10		05/25/10								NA		NA		06/27/10		07/11/10		07/25/10		
	ERRG, Inc.																				
9	**Site 6 Data Gaps Investigation Work Plan / Sampling and Analysis Plan** RPM: Tony Konzen PM: Doug Bielskis	2608	07/08/09	✔	08/10/09	✔	08/31/09	✔	09/30/09	✔	✔	✔	✔				11/25/09	✔	03/12/10		03/26/10		04/09/10		04/19/10		9.30 Rec'd Water Board Comm 10.2 Rec'd TIDA Comm 10.2 Rec'd EPA Comm 10.6 Rec'd DTSC Comm
	Sullivan Consulting Group																				
10	**Site 28 Proposed Plan** RPM: Tony Konzen PM: Mehrdad Javaherian		8/7/09* 10/2/09**	✔ ✔	9/16/2009 11/4/09	✔ ✔	11/24/09	✔	01/21/10	✔	✔	✔	✔		✔		03/04/10		03/18/10		04/03/10		04/13/10		04/27/10		Cal Trans commented.
	Chadux Tetra Tech																				
11	**Site 12 HHRA Tech Memo** RPM: Tony Konzen PM: John Bosche	49	03/05/10		03/19/10		04/03/10		05/03/10								NA		NA		NA		NA		NA		Document will be prepared through Draft only, allowing for discussion and will be finalized as part of the RI Report.
12	**Site 21 PP/RAP** RPM: Scott Anderson PM: Jean Michaels	83	4/5/10* 5/19/10**		5/5/10 6/17/10		07/01/10		08/02/10								09/01/10		09/14/10		09/28/10		10/08/10		10/22/10		* Navy technical review ** Navy legal review

✔ Production or review of document is complete.

X Received notification of no comments or comments deferred to other agency.

Grey shading indicates the document is finalized.

Blue shading indicates agency review comments are due within the next 30 days or are outstanding.

Yellow shading indicates documents that will be issued draft or final within the next 30 days.

Abbreviations:

Caltrans= California Department of Transportation
CTO = Contract Task Order
DHS = Department of Health Services
DO = Delivery Order
DTSC = Department of Toxic Substances Control
EU = Exposure Unit
HERD= Human Ecological Risk Division
HSP = Health and Safety Plan
NA = Not Applicable
PCB = Polychlorinated Biphenyls
PP= Proposed Plan
PM = Project Manager
RAP= Remedial Action Plan
RPM = Remedial Project Manager
SAP = Sampling and Analysis Plan
TBD = To Be Determined
TIDA = Treasure Island Development Authority
Water Board = Regional Water Quality Control Board

Date Last Revised: 3/3/2010

ATTACHMENT 7

NAVY FIELD SCHEDULE

(1 Page)

Naval Station Treasure Island
Navy Field Schedule
March 2010 - September 2010

Item	Activity & Investigation Area	DTR #	Field Dates		Navy RPM	CTO/DO	PM	FTL	Complete
Shaw									
1	Site 24 Treatability Study Phase II *Site 24*	Doc N/A	Start: Finish:	07/21/08 TBD	Scott Anderson (619) 532-0938	FZN1	Pete Bourgeois (415) 277-6983	David Cacciatore (925) 288-2299	
2	Site 21 Pilot Treatability Study *Site 21*	Doc N/A	Start: Finish:	10/06/08 TBD	Scott Anderson (619) 532-0938	FZN1	Pete Bourgeois (415) 277-6983	Dan Leigh (925) 288-2193	
3	Non-Time Critical Removal Action *Site 12*	Doc N/A	Start: Finish:	02/26/07 TBD	Tony Konzen (619) 532-0924	10	Pete Bourgeois (415) 277-6983	Pete Bourgeois (415) 277-6983	
4	Arsenic in Groundwater Pilot Study *Site 12*	Doc N/A	Start: Finish:	11/10/08 TBD	Scott Anderson (619) 532-0938	FZN1	Pete Bourgeois (415) 277-6983	Pete Bourgeois (415) 277-6983	
5	PCB Soil Abatement Parcel T-111/Site 32 *Site 32*	Doc N/A	Start: Finish:	05/11/09 03/31/10	Scott Anderson (619) 532-0938	FZN1	Pete Bourgeois (415) 277-6983	Pete Bourgeois (415) 277-6983	
6	Site 31 Remedial Action *Site 31*	Doc 2	Start: Finish:	02/01/10 04/09/10	Scott Anderson (619) 532-0911	FZN1	Pete Bourgeois (415) 277-6983	Pete Bourgeois (415) 277-6983	
Trevet									
8	Site 12 & 6 Groundwater Sampling *Site 12& 6*	Doc N/A	Start: Finish:	3/11/2010 6/7/2010 3/11/2010 6/9/2010	Tony Konzen (619) 532-0924	CLIN	Greg Alyanakian (858) 869-3110	Greg Alyanakian (858) 869-3110	
EMS									
8	Site 12 Removal Action Soil Sampling *Site 12*	Doc N/A	Start: Finish:	12/05/07 TBD	Tony Konzen (619) 532-0924	NA	Dawn Roarty (916) 919-4785	Salem Attiga (925) 939-0687	
ERRG									
9	Site 6 Data Gaps Investigation *Site 6*	Doc 12	Start: Finish:	04/19/10 TBD	Tony Konzen (619) 532-0924	2608	Doug Bielskis (925) 839-2270	Phil Skorge (925) 839-2266	

CTO - Contract Task Order

DO - Delivery Order
DTR # - Denotes document tracking reference. The number listed corresponds to the associated documentation listed on the Document Tracking Sheet
FTL - Field team lead
N/A - not applicable, there is no associated documentation listed on the DTS.
PCB = Polychlorinated Biphenyls
RPM - Remedial Project Manager
TBD - To Be Determined

✔ Field work is complete.

Yellow shading indicates field activities that will start or finish within the next 30 days.

Grey shading indicates field activities are complete.

Date Last Revised: 3/3/2010

ATTACHMENT 8

COMMUNITY RELATIONS ACTIVITIES/ITEMS
AND
SCHEDULE FOR 2010 RAB MEETING PRESENTATIONS

(3 Pages)

NAVSTA TI Community Relations Activities/Items

	Activity		Schedule	Status
1	**Island Times Newsletter Volume 16, Winter 2010**		**Friday, March 26, 2010**	**In progress**
		Currently being developed. Submit your article topic ideas to Jim Sullivan or Tommie Jean Valmassy	Draft to agencies: February 12, 2010 Agency comments due: March 5, 2010	
2	**General Environmental Fact Sheet Volume 6**		**Monday, April 26, 2010**	**In progress**
		An updated to the 10-page general overview of the enviromental program at NAVSTA TI. The table of current site status and the basewide map are always updated, along with contact information and a list of recent or upcoming happenings. Typically not sent to the entire mailing list. Given out at all meetings open to the public, to new team members, and to people looking for background information. Also posted to the Navy's website, and possibly sent to the full email distribution list.	Coincides with release of the Site Management Plan, because site status is updated based on that document.	
3	**RAB Meeting Schedule Review**			
		Due to low attendance at RAB meetings, the Navy discussed a change in schedule with the RAB members. The suggestion is to switch to quarterly RAB meetings. The 3 regular RAB members said: 1) Fewer RAB meetings would be OK 2) Supplementing with a conference call would be OK if the Navy RPM and consultant are on the phone and they can have a hard copy presentation in advance 3) They are concerned that it will leave out the rest of the community, and challenged the Navy to come up with a way to still be available, in-person, to community members.	The Navy proposes to keep the schedule the same, based on the amount of environmental activity planned for this year. See the attached list of topics to be presented at each RAB meeting, based on current schedules.	
	Remaining RAB Meetings in 2010:			
	147	Tuesday, April 20, 2010	See attached list of topics to be presented at each RAB meeting, based on current schedules	
	148	Tuesday, June 15, 2010		
	149	Tuesday, August 17, 2010		
	150	Tuesday, October 19, 2010		
	151	Tuesday, December 21, 2010		

Schedule for 2010 RAB Meeting Presentations

Current RAB Meeting Date	Document/Timely Topic	Due Date
	Field Work Update	
	Site 12 Arsenic in GW	
2/16/2010	Site 12 NTCRA	presented
	Transfer update	presented
	Look Ahead 2010	presented
4/20/2010	2010 Site Management Plan	4/19/2010
	Site 31 Remedial Action Report	5/9/2010
	T111/Site 32 Post Construction Summary Report for Soil Removal	5/21/2010
	2009 Groundwater Status Report Sites 6 & 12	5/15/2010
	Transfer status update	
	Site 33 path forward	
	Field Work Update (include Site 6 Data Gaps)	
May-10	Possible Site 28 Proposed Plan Meeting	
6/15/2010	Site 12 Backyard Field Work Plan	7/2/2010
	Site 21 Proposed Plan and Draft Remedial Action Plan	7/5/2010
	Site 32 Revised Human Health Risk Assessment Technical Memorandum	7/12/2010
	Building 233 Footprint and Vicinity Final Status Survey Work Plan	7/19/2010
	Site 12 Remedial Investigation Report	7/26/2010
	Site 33 Feasibility Study Report (may not be necessary)	8/2/2010
	Additional Investigation of USTs 240 Work Plan	8/4/2010
	Site 21 Treatability Study Report	8/11/2010
	Final 2010 Site Management Plan	8/9/2010
	Final Site 31 Remedial Action Report	8/8/2010
	Field Work Update	
8/17/2010	Finding of Suitability to Transfer (FOST)	8/22/2010
	Site 27 Proposed Plan and Draft Remedial Action Plan	9/5/2010
	Site 28 Record of Decision and Final Remedial Action Plan	9/16/2010
	Final Site 12 Backyard Field Work Plan	10/1/2010
	Final Building 233 Footprint and Vicinity Final Status Survey Work Plan	10/16/2010
	Field Work Update	
10/19/2010	Final Site 21 Proposed Plan and Draft Remedial Action Plan	10/28/2010
	Final Site 32 Revised Human Health Risk Assessment Technical Memorandum	11/11/2010
	Site 6 Remedial Investigation Report	10/25/2010
	Site 32 Feasibility Study Report (may not be necessary)	11/12/2010
	Site 12 SWDA Final Status Survey (FSS) Work Plan	11/22/2010
	Final Site 12 Remedial Investigation Report	11/15/2010
	Final Site 33 Feasibility Study Report	12/7/2010
	Final Additional Investigation of USTs 240 Work Plan	11/3/2010
	Final Site 21 Treatability Study Report	12/9/2010
	Final Finding of Suitability to Transfer (FOST)	12/1/2010

Schedule for 2010 RAB Meeting Presentations

	Field Work Update	
12/21/2010	Final Site 27 Proposed Plan and Draft Remedial Action Plan	12/26/2010
	Site 27 Proposed Plan and Draft Remedial Action Plan	12/26/2010
	Site 28 Record of Decision and Final Remedial Action Plan	2/4/2011
	Site 12 Solid Waste Disposal Area (SWDA) Non-Time Critical Removal Action (NTCRA) Post Construction Summary Report (PCSR)	12/29/2010
	Site 21 Record of Decision and Final Remedial Action Plan	1/10/2011
	Site 24 Expanded Treatability Study Report	1/26/2011
	Look Back 2010/Look Ahead 2011	
	Field Work Update	
	All documents are draft unless "Final" is noted	